

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Presently Amended) A method for producing a plastic film having improved characteristics, comprising forming the plastic film by extrusion from an extruder nozzle, the film emerging from the nozzle in a melted state, distributing at least one active substance on at least one face of the film, in a region of the film having a temperature higher than the ambient temperature such that the active substances penetrate into and are retained within the film to form a single body of film, cooling the film downstream of the extruder nozzle to a solidified state at ambient temperature wherein the one or more substances are permanently incorporated in the body of the film in the solidified state to modify selected characteristics of the film wherein said active substance provides said film with a "barrier effect" characteristic against the absorption of aromas, water vapor or UV rays.

2-5 Canceled.

1. 6. (Original) The method according to claim 1, wherein said active substance provides said film with a "barrier effect" characteristic against the absorption of aromas, water vapor or UV rays.
1. 7. (Presently Amended) The method according to claim 1 6, wherein said active substances are selected from the group consisting of:
dispersions of EVOH or PVOH;
polyvinyl acetate (PVAC) dispersions;
dispersions of ethylene-acrylic acid (EAA) or methacrylic acid copolymer;
UV cross-linking acrylic resins;
acrylic (styrene acrylic) disperse systems);

8 styrene-butadiene dispersions.

1 8. (Presently Amended) A method for producing a plastic film having improved
2 characteristics, comprising forming the plastic film by extrusion from an extruder
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least
4 one active substance on at least one face of the film, in a region of the film
5 having a temperature higher than the ambient temperature such that the active
6 substances penetrate into and are retained within the film to form a single body
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at
8 ambient temperature wherein the one or more substances are permanently
9 incorporated in the body of the film in the solidified state to modify selected
10 characteristics of the film ~~The method according to claim 1, wherein said active~~
11 ~~substance gives said film characteristics of high flow and surface slipperiness.~~

1 9. (Original) The method according to claim 8, wherein said active substance is an
2 amide.

3

4 10. (Presently Amended) A method for producing a plastic film having improved
5 characteristics, comprising forming the plastic film by extrusion from an extruder
6 nozzle, the film emerging from the nozzle in a melted state, distributing at least
7 one active substance on at least one face of the film, in a region of the film
8 having a temperature higher than the ambient temperature such that the active
9 substances penetrate into and are retained within the film to form a single body
10 of film, cooling the film downstream of the extruder nozzle to a solidified state at
11 ambient temperature wherein the one or more substances are permanently
12 incorporated in the body of the film in the solidified state to modify selected
13 characteristics of the film ~~The method according to claim 1, wherein said active~~
14 ~~substances makes said film a crosslinking promoter.~~

1 11. (Original) The method according to claim 10, wherein said active substance is
2 zinc stearate and/or caprolactam.

1 12. (Presently Amended) A method for producing a plastic film having improved
2 characteristics, comprising forming the plastic film by extrusion from an extruder
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least
4 one active substance on at least one face of the film, in a region of the film
5 having a temperature higher than the ambient temperature such that the active
6 substances penetrate into and are retained within the film to form a single body
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at
8 ambient temperature wherein the one or more substances are permanently
9 incorporated in the body of the film in the solidified state to modify selected
10 characteristics of the film ~~The method according to claim 1, wherein said active~~
11 substance comprises a material that reacts when subsequently exposed to a
12 selected treatment.

1 13. (Original) The method according to claim 12, wherein said active substance is
2 an oxidizing salt.

1 14. (Presently Amended) A method for producing a plastic film having improved
2 characteristics, comprising forming the plastic film by extrusion from an extruder
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least
4 one active substance on at least one face of the film, in a region of the film
5 having a temperature higher than the ambient temperature such that the active
6 substances penetrate into and are retained within the film to form a single body
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at
8 ambient temperature wherein the one or more substances are permanently
9 incorporated in the body of the film in the solidified state to modify selected
10 characteristics of the film ~~The method according to claim 1, wherein identical or~~
11 different active substances are nebulized on both faces of the film.

1 15. (Presently Amended) A method for producing a plastic film having improved
2 characteristics, comprising forming the plastic film by extrusion from an extruder

3 nozzle, the film emerging from the nozzle in a melted state, distributing at least
4 one active substance on at least one face of the film, in a region of the film
5 having a temperature higher than the ambient temperature such that the active
6 substances penetrate into and are retained within the film to form a single body
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at
8 ambient temperature wherein the one or more substances are permanently
9 incorporated in the body of the film in the solidified state to modify selected
10 characteristics of the film ~~The method according to claim 1, wherein said active~~
11 substance is constituted by microcapsules or micropearls which contain
12 substances which are suitable to combine and/or interact with the film and whose
13 shell withstands the temperatures of the region of the film in which they are
14 introduced and can subsequently be activated in order to release the contents
15 due to the application of energy obtained for example with ultraviolet rays,
16 ultrasound or electromagnetic radiation.

16. Canceled